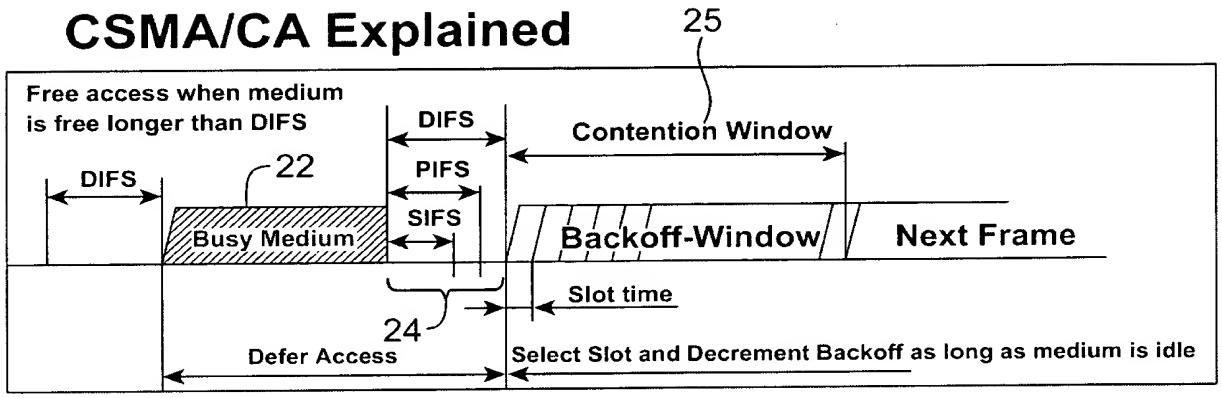
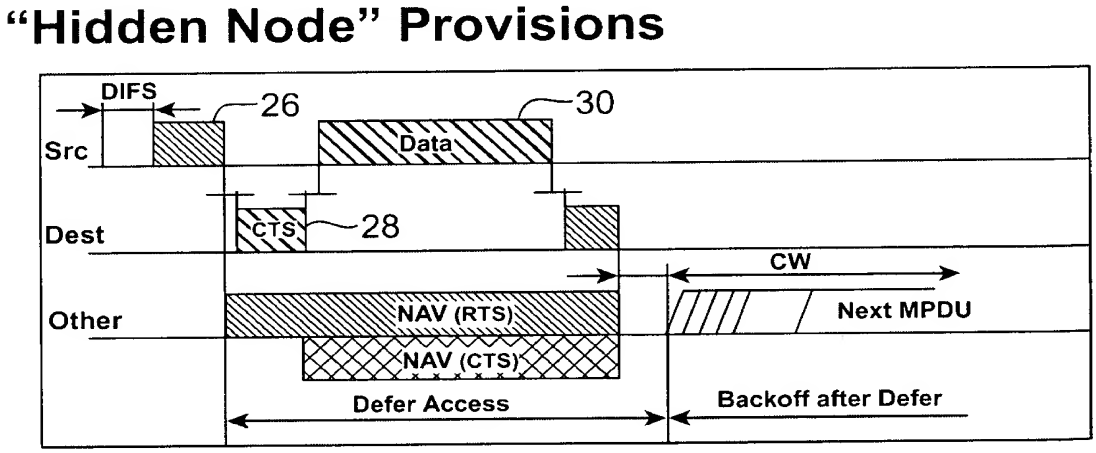
OIPE IAP84
MAY 12 2006
PATENT & TRADEMARK OFFICE



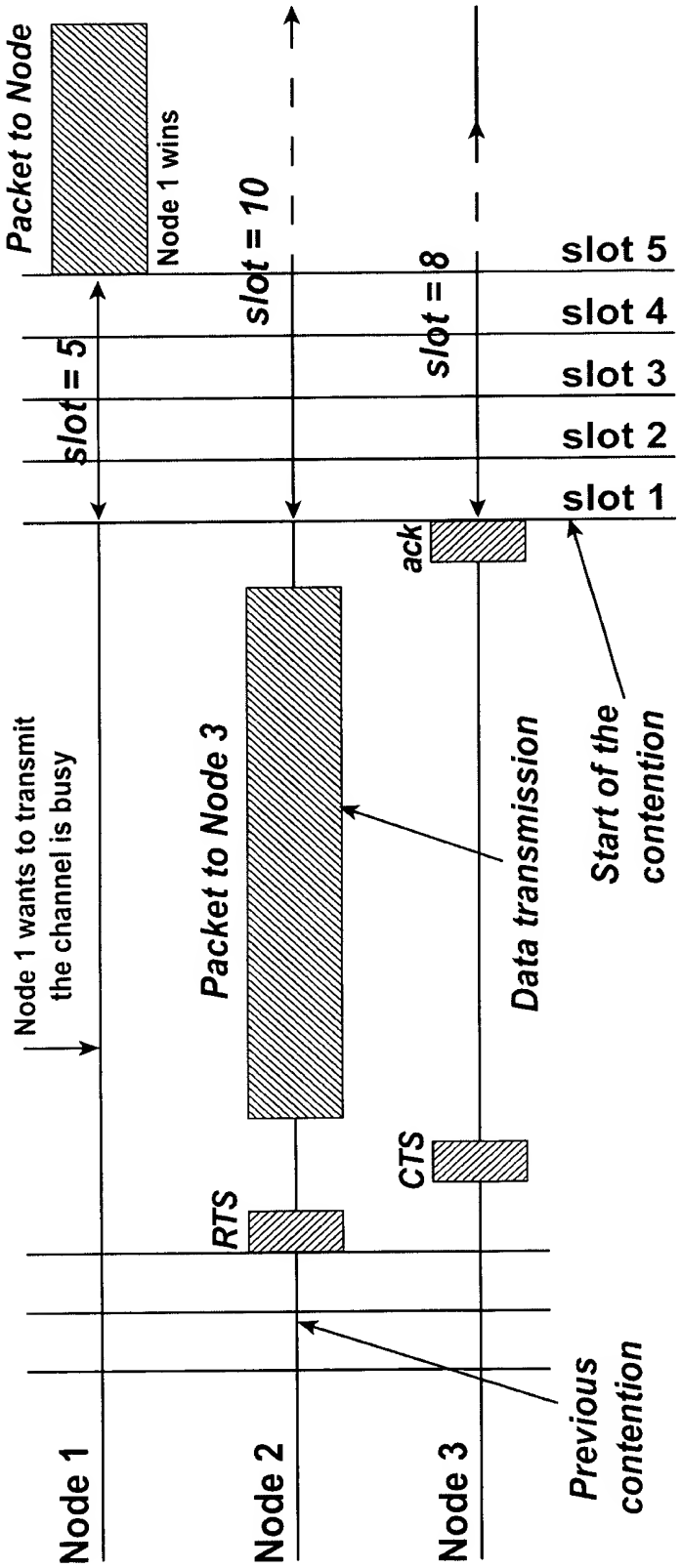
(PRIOR ART)

FIG. 1A



(PRIOR ART)

FIG. 1B



(PRIOR ART)
FIG. 2

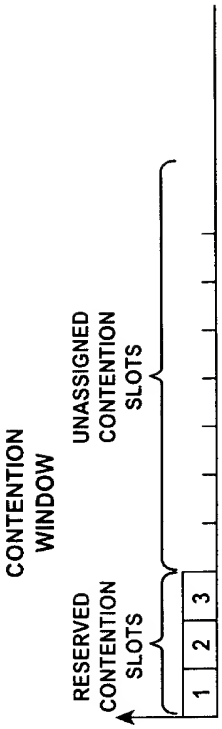

CONTENTION WINDOW
UNASSIGNED CONTENTION SLOTS
RESERVED CONTENTION SLOTS
1
2
3

FIG. 3B

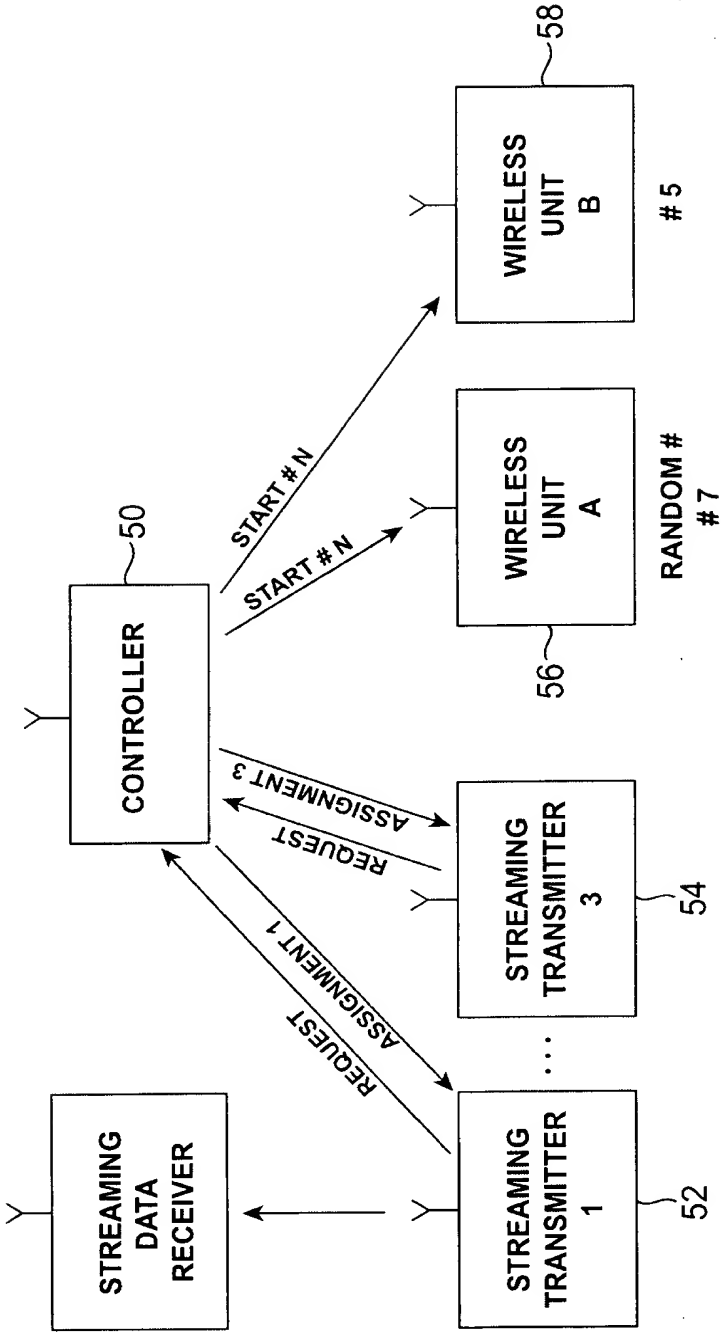

CONTROLLER
50
START # N
START # N
WIRELESS UNIT A
56
RANDOM # # 7
WIRELESS UNIT B
58
5
ASSIGNMENT 3
REQUEST
STREAMING TRANSMITTER 3
54
ASSIGNMENT 1
REQUEST
STREAMING TRANSMITTER 1
52
STREAMING DATA RECEIVER

FIG. 3A

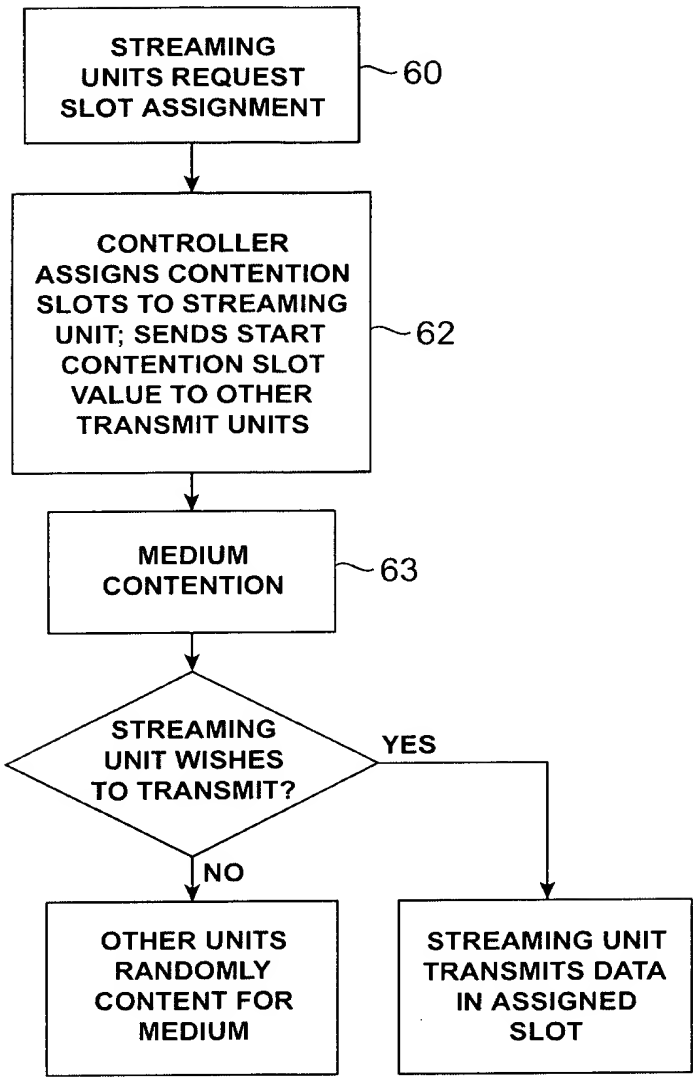


FIG. 4

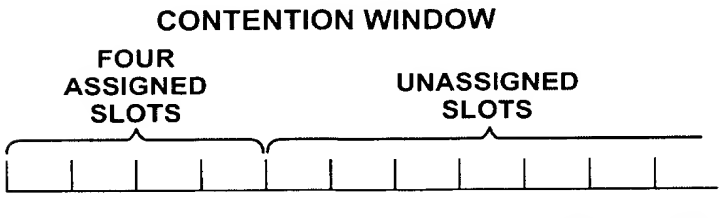


FIG. 5A

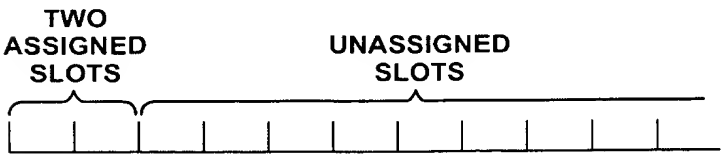


FIG. 5B

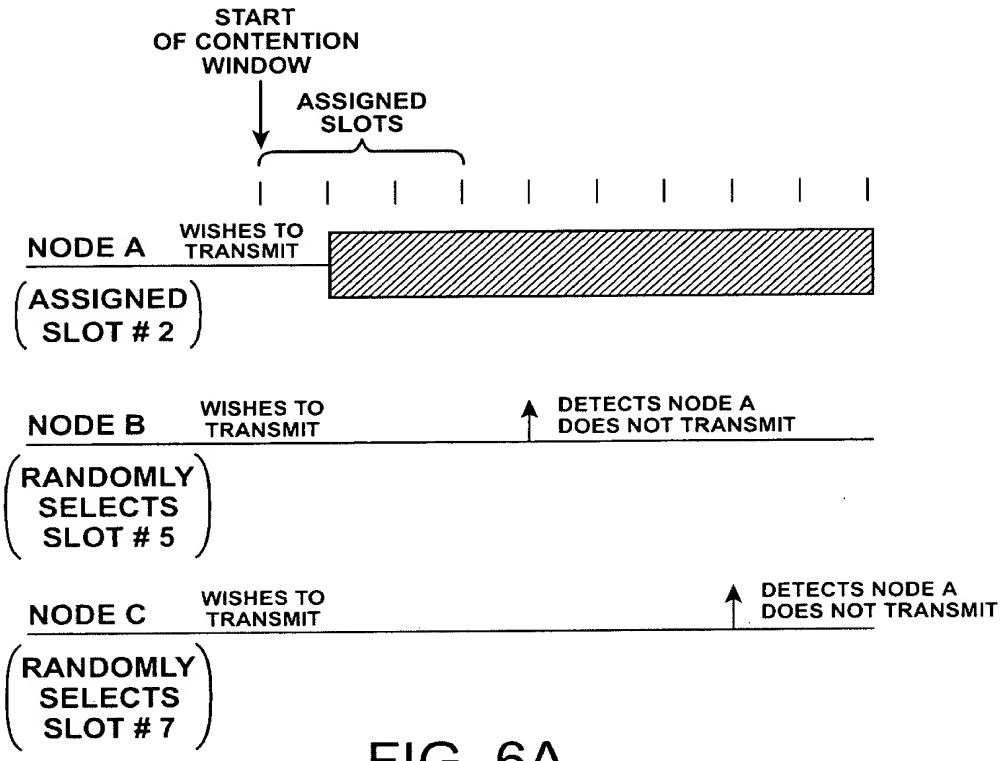

START
OF CONTENTION
WINDOW
ASSIGNED
SLOTS
NODE A
WISHES TO
TRANSMIT
(ASSIGNED
SLOT # 2)
NODE B
WISHES TO
TRANSMIT
DETECTS NODE A
DOES NOT TRANSMIT
(RANDOMLY
SELECTS
SLOT # 5)
NODE C
WISHES TO
TRANSMIT
DETECTS NODE A
DOES NOT TRANSMIT
(RANDOMLY
SELECTS
SLOT # 7)

FIG. 6A

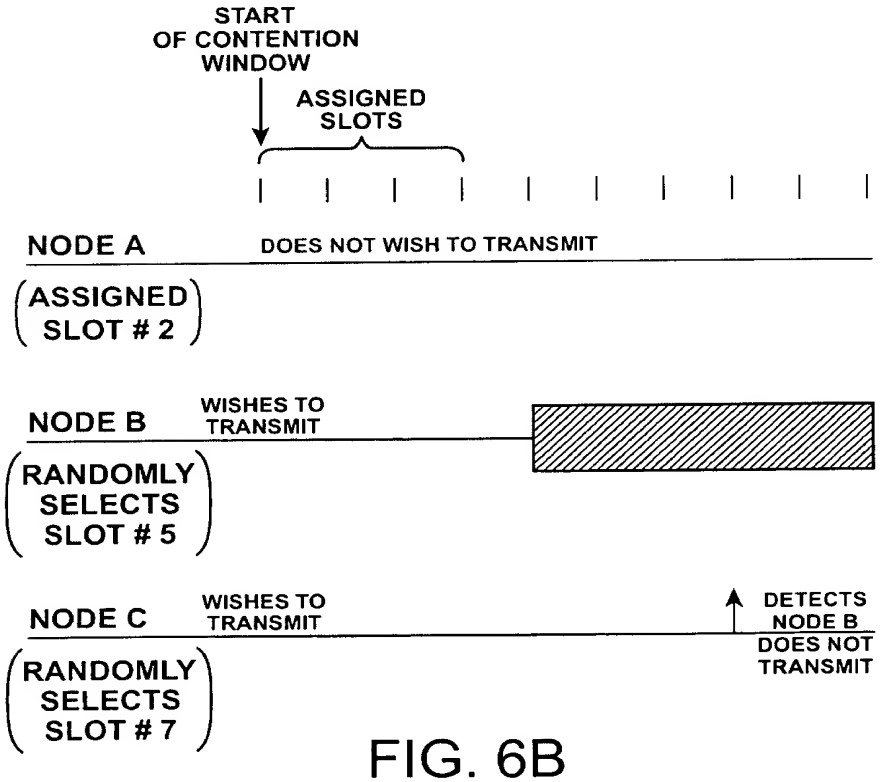

START
OF CONTENTION
WINDOW
ASSIGNED
SLOTS
NODE A
DOES NOT WISH TO TRANSMIT
(ASSIGNED
SLOT # 2)
NODE B
WISHES TO
TRANSMIT
(RANDOMLY
SELECTS
SLOT # 5)
NODE C
WISHES TO
TRANSMIT
DETECTS
NODE B
DOES NOT
TRANSMIT
(RANDOMLY
SELECTS
SLOT # 7)

FIG. 6B

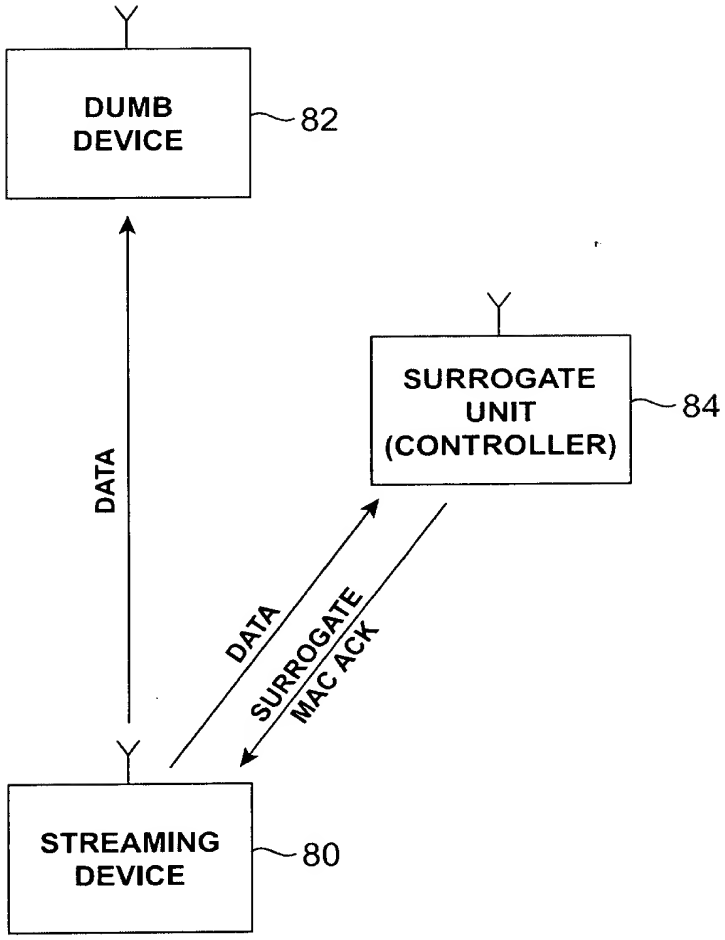

DUMB DEVICE
82
SURROGATE UNIT (CONTROLLER)
84
DATA
DATA
SURROGATE MAC ACK
STREAMING DEVICE
80

FIG. 7